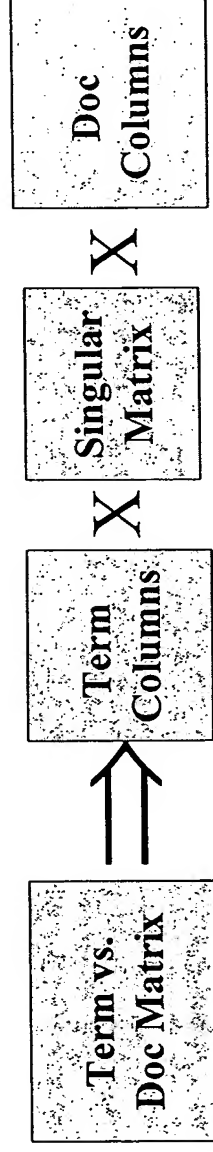


FIGURE 1. Example of the Large Result Sets of Internet Searches

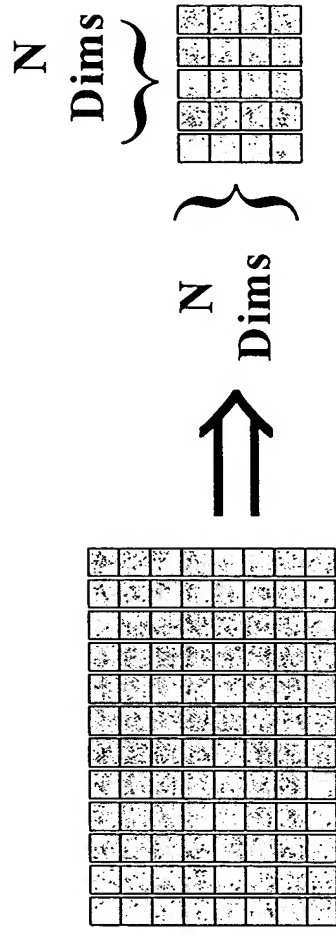
	Doc #1	Doc #2	...	Doc #n
able	1	0	...	1
acid	0	2	...	0
...	...	...	...	...
<term m>	1	0	...	1

FIGURE 2 Term by Document Matrix



**SVD Extracts Key  
Relationships among Terms -  
Basis for Conceptual Matching**

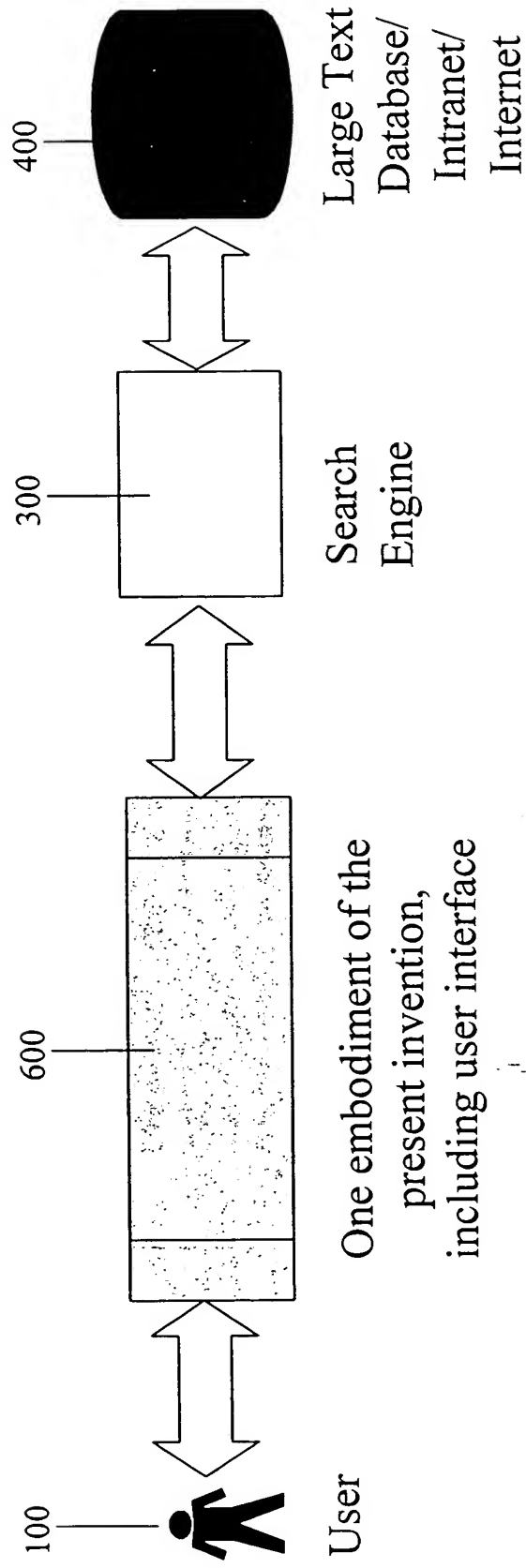
**FIGURE 3 – Singular Value Decomposition (SVD) Operation**



**Large, Sparse Matrix**      **LSI Vector Space**

**Typically, N= Several Hundred**

**FIGURE 4 – Dimensionality Reduction**



**FIGURE 5. Intermediary Role of the Present Invention**

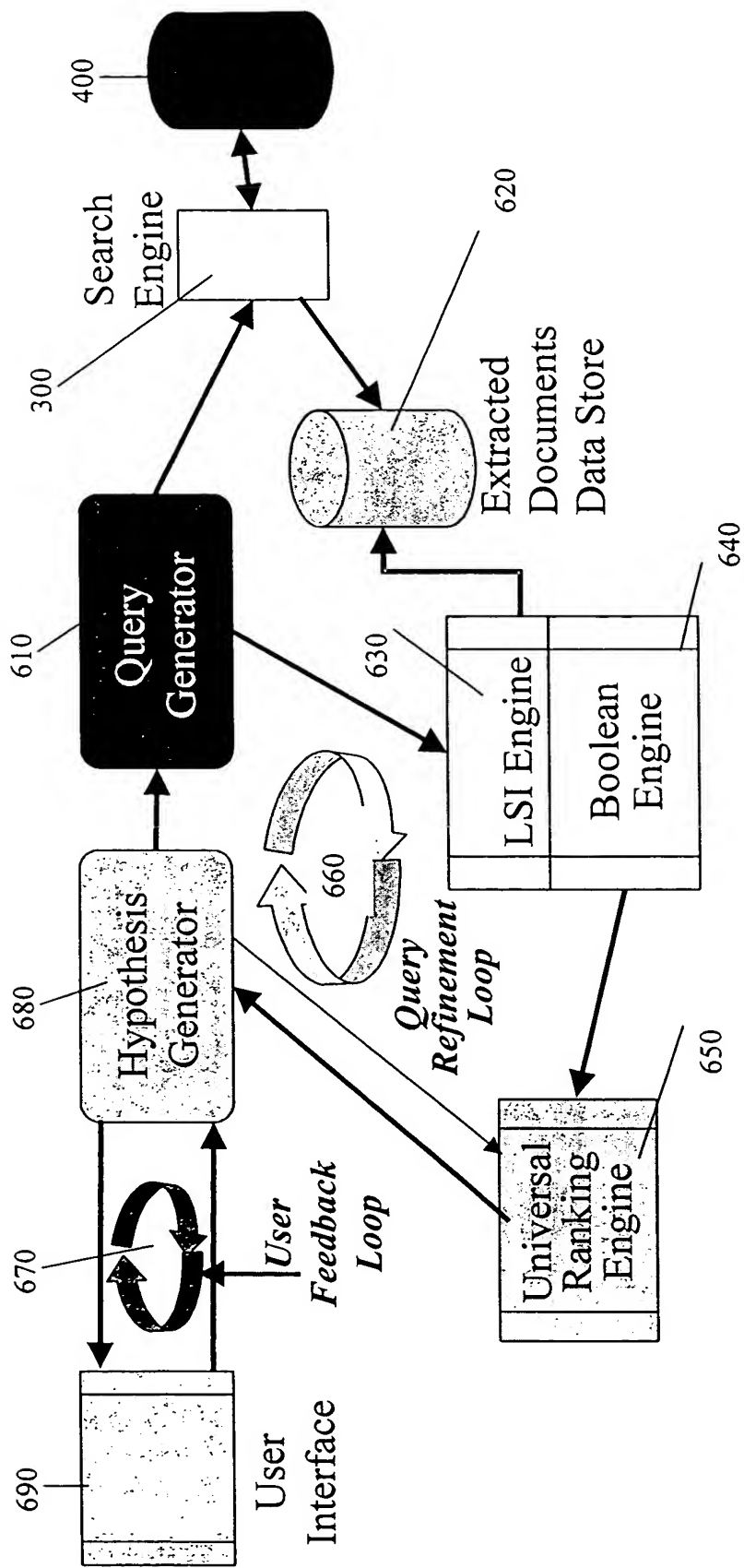


FIGURE 6. Feedback Loops of the Present Invention

<div data-bbox="276 1453 316 1522">692</div> <div data-bbox="246 1050 284 1123">691</div> <div data-bbox="267 1218 316 1291">693</div> <div data-bbox="267 630 308 703">694</div>	<div data-bbox="389 1092 479 1890"> <p>Objects of Interest:</p> <p>bear</p> </div> <div data-bbox="617 1092 706 1890"> <p>Related Objects:</p> <p>tooth</p> <p>claw</p> </div> <div data-bbox="893 1092 982 1890"> <p>Synonyms:</p> <p>ursinus</p> </div>	<div data-bbox="609 241 698 1050"> <p>Unrelated:</p> <p>teddy bear</p> <p>investor</p> </div> <div data-bbox="885 241 974 1050"> <p>Important if Related:</p> <p>killer</p> <p>savage</p> </div>	<div data-bbox="1209 1711 1250 1774">696</div> <div data-bbox="1193 294 1234 357">695</div>
---	---	--	---

FIGURE 7. Simple User Interface

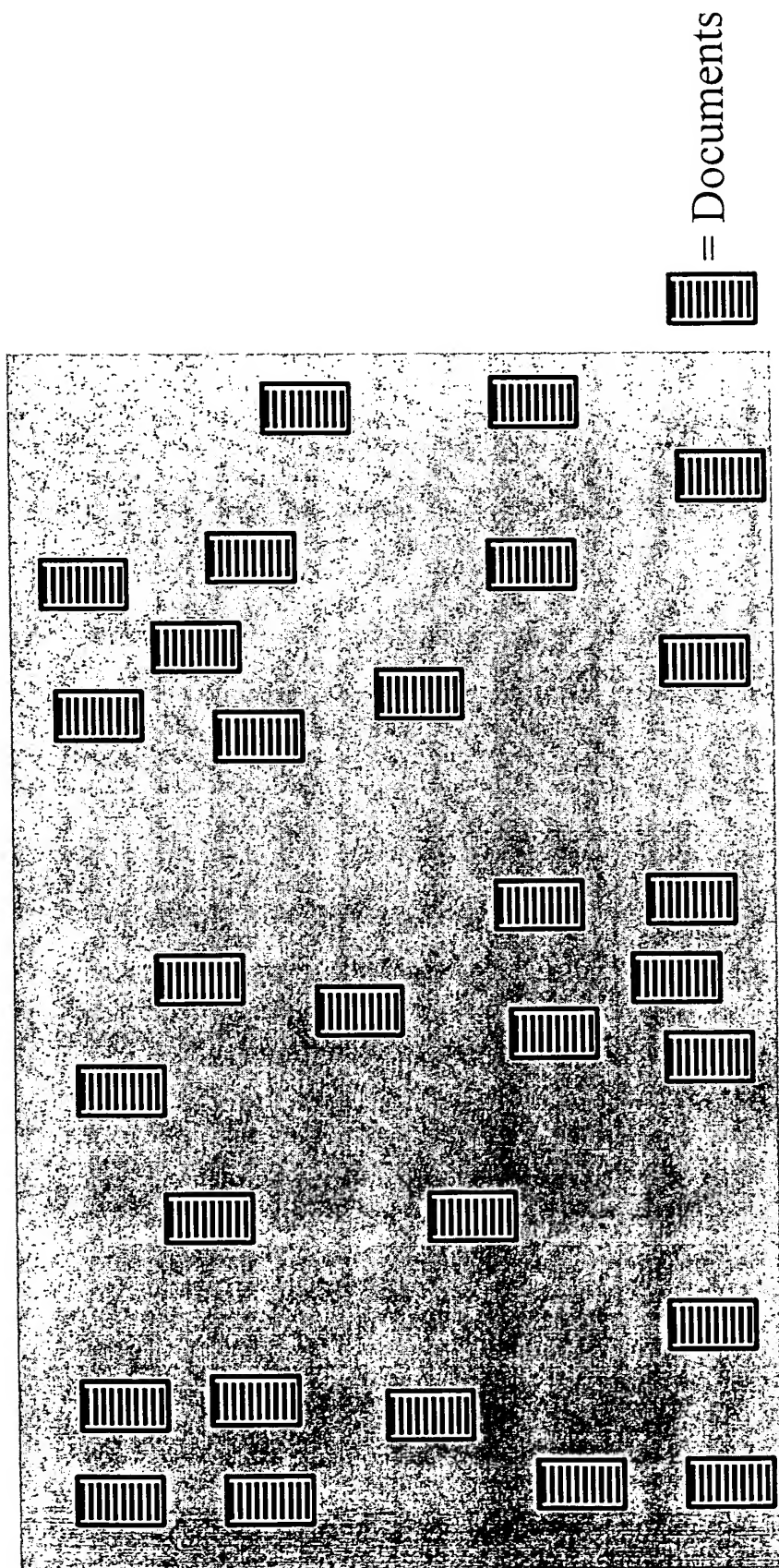
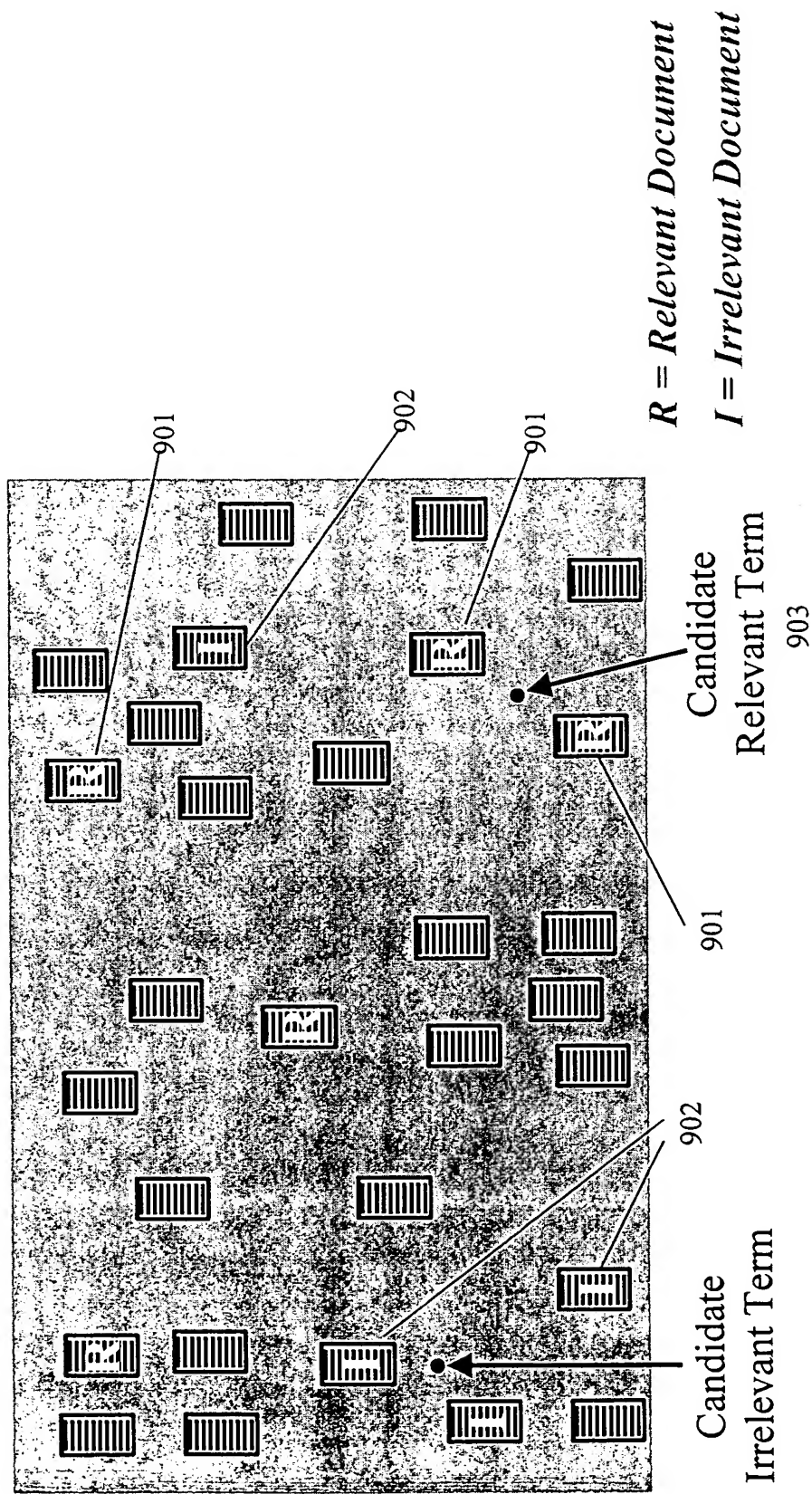


FIGURE 8. Two-Dimensional Representation of an LSI Space





**FIGURE 9. Proximity of Relevant Terms to Relevant Documents and Irrelevant Terms to Irrelevant Documents**

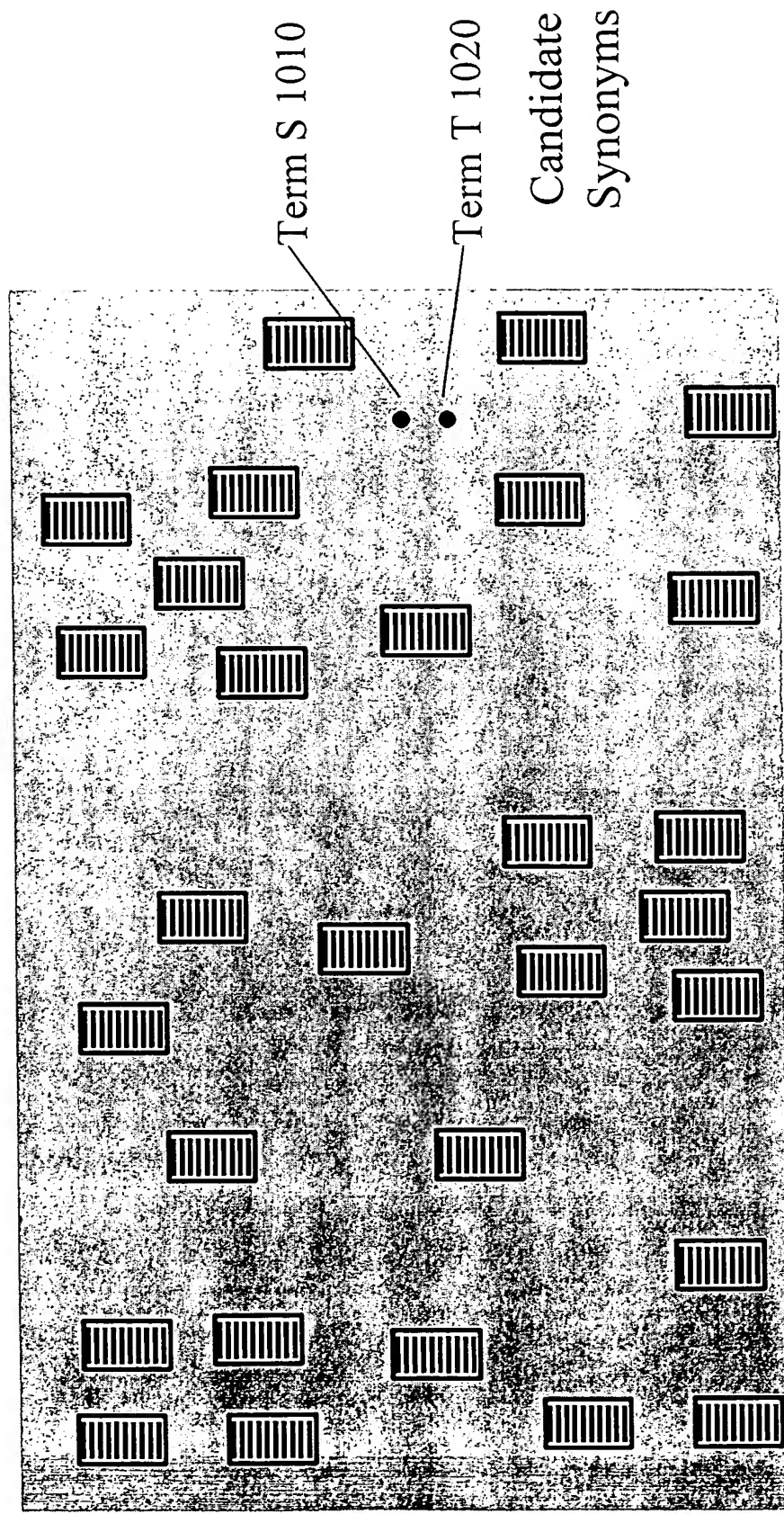


FIGURE 10. Candidate Synonym Terms

Are <b>Koala</b> bears objects of interest?	Yes <input type="radio"/>	No <input type="radio"/>	Don't Know <input type="radio"/>
Is <b>ant bear</b> a relevant object?	Yes <input type="radio"/>	No <input type="radio"/>	Don't Know <input type="radio"/>
Is <b>cub scout</b> an irrelevant term?	Yes <input type="radio"/>	No <input type="radio"/>	Don't Know <input type="radio"/>
Is <b>Ursinus</b> a synonym for bear?	Yes <input type="radio"/>	No <input type="radio"/>	Don't Know <input type="radio"/>
<div>Submit</div>			

FIGURE 11. User Interface for Specific Feedback